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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/680,885	10/07/2003	Geoffrey Frank Deane	INOGN.005A	6432
	7590 07/06/2001 RTENS OLSON & BE.		EXAMINER	
2040 MAIN ST	REET		PATEL, NIHIR B	
FOURTEENTH FLOOR IRVINE, CA 92614			ART UNIT	PAPER NUMBER
			3772	
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			NOTIFICATION DATE	DELIVERY MODE
			07/06/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

	Application No.	Applicant(s)				
Office Action Comments	10/680,885	DEANE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nihir Patel	3772				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was pailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 04.16	<u>5.2007</u> .					
·- · · · · · · · · · · · · · · · · · ·	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>4-8,19-21 and 24-26</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>4-8,19 and 24-26</u> is/are rejected.	<u></u>					
7)⊠ Claim(s) <u>20 and 21</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
	•					
Application Papers						
9) The specification is objected to by the Examiner.						
10) \boxtimes The drawing(s) filed on <u>4.13.2007</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date				

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DETAILED ACTION

Allowable Subject Matter

1. The indicated allowability of claims **4-8**, **19-21** and **24-26** is withdrawn in view of the newly discovered reference(s). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims **4-6, 8 and 19** are rejected under 35 U.S.C. 102(e) as being anticipated by McCombs et al. (US 6,764,534).
- 4. As to claim 4, McCombs teaches a portable oxygen concentrator that comprises a compressor 24 which compresses a gas, such as air, to provide a feed gas (see figures 1 and 2; column 3 lines 8-17); plural adsorbent beds 30 and 32 which receive the feed gas and output a purified gas and a waste gas (see figures 1, 4, 7 and 8; column 3 lines 18-40); a battery (see column 5 lines 1-10) which supplies power to the compressor; a housing 104 and 106 which comprises an ambient air inlet 21, an ambient air outlet 30b and 32b, and plural compartments (the two compartments are separated by a central chassis 108), a first of which contains the adsorbent beds and a second of which contains the compressor (see figures 7 and 8), the compartments significantly inhibit migration of thermal energy from the second compartment to the first compartment, wherein the housing further comprises a circuitous air passageway

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through which the air is directed to flow, the air passageway having an upstream portion and a downstream portion (see column 3 lines 15-45); and an air circulation fan which draws air through the inlet into the first compartment and through the first compartment into the second compartment, the air being exhausted through the outlet (see column 4 lines 45-65), wherein the upstream portion of the air passageway is positioned adjacent the first compartment and the downstream portion of the air passageway is positioned adjacent the second compartment (see figures 7 and 8).

- 5. As to claim 5, McCombs teaches an apparatus wherein the first compartment contains heat sensitive components including a plurality of valves interconnected to the adsorbent beds and a circuit board having control circuitry which governs the operation of the valves (see figures 1-8 and column 3 lines 8-17 and 40-55).
- 6. As to claim 6, McCombs teaches an apparatus wherein air in the downstream portion of the air passageway is substantially inhibited from flowing into the upstream portion (see column 3 lines 25-40).
- 7. As to claim 8, McCombs teaches an apparatus wherein the fan is positioned directly above the compressor and produces an air stream directly against the compressor (see figures 7 and 8).
- 8. As to claim 19, McCombs teaches a portable oxygen concentrator that comprises a compressor which produces a feed gas (see figures 1 and 2; column 3 lines 8-17); plural adsorbent beds connected to receive the feed gas and produce a purified gas and a waste gas from the feed gas (see column 3 lines 25-40); a battery (see column 5 lines 1-10); a conduit connected to deliver the waste gas to the battery to cool the battery (see column 5 lines 9-25);

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and wherein the battery is positioned in a battery compartment, wherein the conduit delivers waste gas to a space between the battery and the battery compartment (see column 5 lines 9-25).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. Claims 7 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCombs et al. (Us 6,764,534).
- 12. As to claims 24 and 25, McCombs substantially discloses a method step comprising providing an oxygen concentrator having an air compressor 24 (see figures 1 and 2; column 3 lines 8-17) which supplies compressed air to a PSA unit, the PSA unit comprising plural adsorbent beds 30 and 32 (see figures 1, 4, 7 and 8; column 3 lines 18-40) and a plurality of valves which control fluid flow to and from the beds (see figures 1-8 and column 3 lines 8-17 and 40-55); generating an air flow through the concentrator by inputting air through an inlet and outputting the air through an outlet, such that the air flows along a flow path through the

concentrator (see column 4 lines 45-65); and exposing the valves to an upstream portion of the flow path and exposing the air compressor to a downstream portion of the flow path, such that the valves are substantially isolated from air that flows through the downstream portion of the flow path, wherein generating an air flow comprises using an air circulation fan 92 to produce an air stream directly against the air compressor (see figures 7 and 8).

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The claimed method steps would have been obvious because they would have resulted from the use of the device of McCombs.

13. As to claims 7 and 26, McCombs substantially discloses the claimed invention; see rejection of claims 4 and 24, but does not disclose plurality of sound absorbing baffles positioned along at least a portion of the air passageway. It would have been an obvious matter of design choice to provide plurality of sound absorbing baffles positioned along at least a portion of the air passageway in order to reduce noise level, since the applicant has not disclosed that having plurality of sound absorbing baffles positioned along at least a portion of the air passageway solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with intake resonator as indicated by McCombs (see column 3 lines 10-20).

Allowable Subject Matter

14. Claims 20 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record does not teach a battery compartment that is of a thermal sleeve positioned around the battery and wherein the waste gas comprises a nitrogen rich gas.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nihir Patel whose telephone number is (571) 272-4803. The

examiner can normally be reached on 7:30 to 4:30 every other Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Patricia Bianco can be reached on (571) 272-4940. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit 3772

Nihir Patel

PATRICIA BIANCO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

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